

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Assays & screens			
High throughput sequencing of tumor tissue to guide clinical trial enrollment	High throughput sequencing of tumor tissue from patients with advanced cancer could help guide clinical trial enrollment. In a patient with refractory metastatic melanoma, sequencing of frozen tumor samples identified 36 point mutations, 269 chromosome amplifications, 24 gene rearrangements and 4 gene fusions, including an activating mutation in <i>v-Ha-ras Harvey rat sarcoma viral oncogene homolog (HRAS)</i> not previously documented in melanoma. The sequencing results suggested the patient could be treated with a combination of MEK and phosphoinositide 3-kinase (PI3K) inhibitors. Next steps include adapting the sequencing approach to work on fixed samples and scaling up to conduct sequencing on 100 patients in 2012.	Unpatented; available for partnering	Roychowdhury, S. <i>et al. Sci. Transl. Med.</i> ; published online Nov. 30, 2011; doi:10.1126/scitranslmed.3003161 Contact: Arul M. Chinnaiyan, University of Michigan, Ann Arbor, Mich. e-mail: arul@umich.edu
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